

ROBERT E. BUSHNELL*†

R. E. BUSHNELL

INTELLECTUAL PROPERTY LAW

TELEPHONE (202) 408-9040

FACSIMILE (202) 289-7100

FACSIMILE (202) 628-3835

FACSIMILE (410) 747-0022

E-MAIL: REBUSHNELL@AOL.COM

ATTORNEY AT LAW
1522 K STREET, N.W., SUITE 300
WASHINGTON, D.C. 20005-1202
UNITED STATES OF AMERICA

19 April 2004

OF COUNSEL

RICHARD H. STERN^o
HENRY M. ZYKORIE

MICHAEL D. PARKER
(REG. PATENT AGENT)

† ADMITTED IN MARYLAND
° ADMITTED IN VIRGINIA
‡ ADMITTED IN NEW YORK
° ADMITTED IN CONNECTICUT
* ADMITTED IN NEW JERSEY
* NOT ADMITTED IN D.C.

Mail Stop Patent Application

Commissioner for Patents

P.O.Box 1450

Alexandria, VA 22313-1450

- ☐ U.S. Postal Service
☐ Via Local Courier
☐ Via International Courier
☐ Via Facsimile No. _____
☐ Via E-Mail Attachment
☐ Please Acknowledge Receipt

Attorney Docket: P57051

Sir:

Submitted herewith is the following patent application:

Inventor: JUN-HYUK LEE

**Title: PERFORMING TERMINAL AUTHENTICATION AND CALL
PROCESSING IN PRIVATE WIRELESS HIGH-SPEED DATA
SYSTEM**

Please find attached hereto an application for patent which includes: Specification and Abstract, Claims, original Declaration And Power of Attorney, Assignment, and a certified copy of the foreign priority document identified below:

Verified Showing of Small Entity Status: **NO**

Drawings: Formal drawings, 4 sheets, Figures 1 through 4

Claim of priority under 35 U.S.C. §119: **YES**

** The Republic Of Korea Application No. 2003-27343 filed 29 April 2003

FEE (see formula below): CHECKS ENCLOSED (## 45523, 45524)

Basic Fee \$385/770 \$770.00

Additional Fees:

Total number of claims in excess of 20: ____ times \$9/18 . \$0.00

Number of independent claims in excess of 3: 2 times \$43/86 \$172.00

Multiple Dependent Claims \$145/290 \$0.00

An Assignment is likewise enclosed: Recording Fee \$40 .. \$40.00

Filing Non-English specification \$0.00

TOTAL FEES FOR THE ABOVE APPLICATION \$982.00

Commissioner for Patents

19 April 2004

Page Two

Docket No.: P57051

Inventor: JUN-HYUK LEE

**Title: PERFORMING TERMINAL AUTHENTICATION AND CALL
PROCESSING IN PRIVATE WIRELESS HIGH-SPEED DATA
SYSTEM**

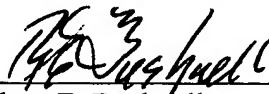
The Commissioner is authorized to charge our Deposit Account No. 02-4943 for any additional charges necessary towards payment of the issue fee for the above-referenced application. Please notify the undersigned attorney of any transaction regarding our Deposit Account.

In view of the above, it is requested that this application be accorded a filing date pursuant to 37 CFR 1.53(b).

Please address all correspondence to:

Robert E. Bushnell
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005-1202

Respectfully submitted,



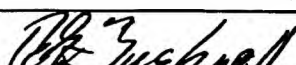
Robert E. Bushnell
(Registration No. 27,774)
Payor No.: 008-439
Attorney for the Applicant
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005-1202

Telephone: (202) 408-9040
Telefacsimile: (202) 289-7100

REB/kf

10281 U.S. PTO

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <p style="margin: 5px 0;">Patent fees are subject to annual revision.</p>		Complete If Known																																																																																																																																																																																																																																							
TOTAL AMOUNT OF PAYMENT (\$) <u>982.00</u>		Application Number <i>to be assigned</i>	Filing Date 19 April 2004																																																																																																																																																																																																																																						
METHOD OF PAYMENT (check one)		First Named Inventor Jun-Hyuk LEE	Examiner Name <i>to be assigned</i>																																																																																																																																																																																																																																						
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any deficiency and credit any over payments to:		Group/Art Unit <i>to be assigned</i>	Attorney Docket No. P57051																																																																																																																																																																																																																																						
2. <input checked="" type="checkbox"/> Payment Enclosed: (CHECKS #45523, #45524) <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other		FEE CALCULATION (continued)																																																																																																																																																																																																																																							
3. <input type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17. 4. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		3. ADDITIONAL FEES																																																																																																																																																																																																																																							
1. BASIC FILING FEE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td>\$770.00</td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td>\$</td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td>\$</td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td>\$</td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td>\$</td> </tr> <tr> <td colspan="5">SUBTOTAL (1)</td> <td>(\$) <u>770.00</u></td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1001	770	2001	385	Utility filing fee	\$770.00	1002	340	2002	170	Design filing fee	\$	1003	530	2003	265	Plant filing fee	\$	1004	770	2004	385	Reissue filing fee	\$	1005	160	2005	80	Provisional filing fee	\$	SUBTOTAL (1)					(\$) <u>770.00</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge-late filing fee or oath</td> <td>\$</td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge-late provisional filing fee or cover sheet</td> <td>\$</td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td>\$</td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td>\$</td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td>\$</td> </tr> <tr> <td>1805</td> <td>1,840 *</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td>\$</td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for reply within first month</td> <td>\$</td> </tr> <tr> <td>1252</td> <td>420</td> <td>2252</td> <td>210</td> <td>Extension for reply within second month</td> <td>\$</td> </tr> <tr> <td>1253</td> <td>950</td> <td>2253</td> <td>475</td> <td>Extension for reply within third month</td> <td>\$</td> </tr> <tr> <td>1254</td> <td>1,480</td> <td>2254</td> <td>740</td> <td>Extension for reply within fourth month</td> <td>\$</td> </tr> <tr> <td>1255</td> <td>2,010</td> <td>2255</td> <td>1,005</td> <td>Extension for reply within fifth month</td> <td>\$</td> </tr> <tr> <td>1401</td> <td>330</td> <td>2401</td> <td>165</td> <td>Notice of Appeal</td> <td>\$</td> </tr> <tr> <td>1402</td> <td>330</td> <td>2402</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td>\$</td> </tr> <tr> <td>1403</td> <td>290</td> <td>2403</td> <td>145</td> <td>Request for oral hearing</td> <td>\$</td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td>\$</td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td>\$</td> </tr> <tr> <td>1453</td> <td>1,330</td> <td>2453</td> <td>665</td> <td>Petition to revive - unintentional</td> <td>\$</td> </tr> <tr> <td>1501</td> <td>1,330</td> <td>2501</td> <td>665</td> <td>Utility issue fee (or reissue)</td> <td>\$</td> </tr> <tr> <td>1502</td> <td>480</td> <td>2502</td> <td>240</td> <td>Design issue fee</td> <td>\$</td> </tr> <tr> <td>1503</td> <td>640</td> <td>2503</td> <td>320</td> <td>Plant issue fee</td> <td>\$</td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td>\$</td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee for provisional applications</td> <td>\$</td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Statement</td> <td>\$</td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (Times number of properties)</td> <td>\$40.00</td> </tr> <tr> <td>1809</td> <td>770</td> <td>2809</td> <td>385</td> <td>Filing a submission after final rejection (37 C.F.R. §1.129(a))</td> <td>\$</td> </tr> <tr> <td>1810</td> <td>770</td> <td>2810</td> <td>385</td> <td>For each additional invention to be examined (37 C.F.R. §1.129(b))</td> <td>\$</td> </tr> <tr> <td>1801</td> <td>770</td> <td>2801</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td>\$</td> </tr> <tr> <td colspan="5">Other Fee (specify) _____</td> <td>\$</td> </tr> <tr> <td colspan="5">Other Fee (specify) _____</td> <td>\$</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge-late filing fee or oath	\$	1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	\$	1053	130	1053	130	Non-English specification	\$	1812	2,520	1812	2,520	For filing a request for reexamination	\$	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	\$	1805	1,840 *	1805	1,840*	Requesting publication of SIR after Examiner action	\$	1251	110	2251	55	Extension for reply within first month	\$	1252	420	2252	210	Extension for reply within second month	\$	1253	950	2253	475	Extension for reply within third month	\$	1254	1,480	2254	740	Extension for reply within fourth month	\$	1255	2,010	2255	1,005	Extension for reply within fifth month	\$	1401	330	2401	165	Notice of Appeal	\$	1402	330	2402	165	Filing a brief in support of an appeal	\$	1403	290	2403	145	Request for oral hearing	\$	1451	1,510	1451	1,510	Petition to institute a public use proceeding	\$	1452	110	2452	55	Petition to revive - unavoidable	\$	1453	1,330	2453	665	Petition to revive - unintentional	\$	1501	1,330	2501	665	Utility issue fee (or reissue)	\$	1502	480	2502	240	Design issue fee	\$	1503	640	2503	320	Plant issue fee	\$	1460	130	1460	130	Petitions to the Commissioner	\$	1807	50	1807	50	Processing fee for provisional applications	\$	1806	180	1806	180	Submission of Information Disclosure Statement	\$	8021	40	8021	40	Recording each patent assignment per property (Times number of properties)	\$40.00	1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$	1810	770	2810	385	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$	1801	770	2801	385	Request for Continued Examination (RCE)	\$	Other Fee (specify) _____					\$	Other Fee (specify) _____					\$
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																				
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																						
1001	770	2001	385	Utility filing fee	\$770.00																																																																																																																																																																																																																																				
1002	340	2002	170	Design filing fee	\$																																																																																																																																																																																																																																				
1003	530	2003	265	Plant filing fee	\$																																																																																																																																																																																																																																				
1004	770	2004	385	Reissue filing fee	\$																																																																																																																																																																																																																																				
1005	160	2005	80	Provisional filing fee	\$																																																																																																																																																																																																																																				
SUBTOTAL (1)					(\$) <u>770.00</u>																																																																																																																																																																																																																																				
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																				
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																						
1051	130	2051	65	Surcharge-late filing fee or oath	\$																																																																																																																																																																																																																																				
1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	\$																																																																																																																																																																																																																																				
1053	130	1053	130	Non-English specification	\$																																																																																																																																																																																																																																				
1812	2,520	1812	2,520	For filing a request for reexamination	\$																																																																																																																																																																																																																																				
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	\$																																																																																																																																																																																																																																				
1805	1,840 *	1805	1,840*	Requesting publication of SIR after Examiner action	\$																																																																																																																																																																																																																																				
1251	110	2251	55	Extension for reply within first month	\$																																																																																																																																																																																																																																				
1252	420	2252	210	Extension for reply within second month	\$																																																																																																																																																																																																																																				
1253	950	2253	475	Extension for reply within third month	\$																																																																																																																																																																																																																																				
1254	1,480	2254	740	Extension for reply within fourth month	\$																																																																																																																																																																																																																																				
1255	2,010	2255	1,005	Extension for reply within fifth month	\$																																																																																																																																																																																																																																				
1401	330	2401	165	Notice of Appeal	\$																																																																																																																																																																																																																																				
1402	330	2402	165	Filing a brief in support of an appeal	\$																																																																																																																																																																																																																																				
1403	290	2403	145	Request for oral hearing	\$																																																																																																																																																																																																																																				
1451	1,510	1451	1,510	Petition to institute a public use proceeding	\$																																																																																																																																																																																																																																				
1452	110	2452	55	Petition to revive - unavoidable	\$																																																																																																																																																																																																																																				
1453	1,330	2453	665	Petition to revive - unintentional	\$																																																																																																																																																																																																																																				
1501	1,330	2501	665	Utility issue fee (or reissue)	\$																																																																																																																																																																																																																																				
1502	480	2502	240	Design issue fee	\$																																																																																																																																																																																																																																				
1503	640	2503	320	Plant issue fee	\$																																																																																																																																																																																																																																				
1460	130	1460	130	Petitions to the Commissioner	\$																																																																																																																																																																																																																																				
1807	50	1807	50	Processing fee for provisional applications	\$																																																																																																																																																																																																																																				
1806	180	1806	180	Submission of Information Disclosure Statement	\$																																																																																																																																																																																																																																				
8021	40	8021	40	Recording each patent assignment per property (Times number of properties)	\$40.00																																																																																																																																																																																																																																				
1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$																																																																																																																																																																																																																																				
1810	770	2810	385	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$																																																																																																																																																																																																																																				
1801	770	2801	385	Request for Continued Examination (RCE)	\$																																																																																																																																																																																																																																				
Other Fee (specify) _____					\$																																																																																																																																																																																																																																				
Other Fee (specify) _____					\$																																																																																																																																																																																																																																				
2. EXTRA CLAIM FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total claims</th> <th>Independent Claims</th> <th>Multiple Dependent</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td></td> <td>20</td> <td>5</td> <td></td> <td>-20** =</td> <td>x 18.00</td> <td>= .00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-3** =</td> <td>2 x 86.00</td> <td>= 172.00</td> </tr> <tr> <td colspan="7">** or number previously paid, if greater; For Reissues, see below</td> </tr> </tbody> </table>			Total claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid		20	5		-20** =	x 18.00	= .00					-3** =	2 x 86.00	= 172.00	** or number previously paid, if greater; For Reissues, see below							SUBTOTAL (2) (\$) <u>172.00</u>																																																																																																																																																																																																											
	Total claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																																																			
	20	5		-20** =	x 18.00	= .00																																																																																																																																																																																																																																			
				-3** =	2 x 86.00	= 172.00																																																																																																																																																																																																																																			
** or number previously paid, if greater; For Reissues, see below																																																																																																																																																																																																																																									
5. <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other		SUBTOTAL (3) \$40.00																																																																																																																																																																																																																																							
SUBMITTED BY		Complete (if applicable)																																																																																																																																																																																																																																							
Typed or Printed Name	Robert E. Bushnell, Esq.	Reg. Number	27,774																																																																																																																																																																																																																																						
Signature		Date	19 April 2004																																																																																																																																																																																																																																						
REB/kf		Deposit Account User ID																																																																																																																																																																																																																																							

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JUN-HYUK LEE

Serial No.: *to be assigned*

Examiner: *to be assigned*

Filed: 19 April 2004

Art Unit: *to be assigned*

For: PERFORMING TERMINAL AUTHENTICATION AND CALL PROCESSING
IN PRIVATE WIRELESS HIGH-SPEED DATA SYSTEM

TRANSMITTAL OF PROPRIETARY MATERIAL UNDER MPEP §724

Mail Stop Patent Application

Commissioner for Patents

P.O.Box 1450

Alexandria, VA 22313-1450

Sir:

This transmittal accompanies the following two U.S. patent applications, which are concurrently submitted with the present application, as "PROPRIETARY MATERIAL NOT OPEN TO PUBLIC. TO BE OPENED ONLY BY EXAMINER OR OTHER AUTHORIZED U.S. PATENT AND TRADEMARK OFFICE EMPLOYEE" for consideration under MPEP §724.

#1 (Attorney's Docket No. P57053)

In re Application of: Jun-Hyuk LEE

Application No.: *to be assigned* (Applicant's Docket No. P57053)

Filed: 19 April 2004

For: *PRIVATE WIRELESS HIGH-SPEED DATA SYSTEM AND DATA SERVICE
METHOD*

TC Art Unit: *to be assigned*

Examiner: *to be assigned*

#2 (Attorney's Docket No. P57054)

In re Application of: Sung-Hoon KIM *et al.*

Application No.: *to be assigned* (Applicant's Docket No. P57054)

Filed: 19 April 2004

For: *PRIVATE EV-DO SYSTEM SHARING PUBLIC NETWORK DATA LOCATION*

REGISTER AND DATA SERVICE METHOD


TC Art Unit: *to be assigned*

Examiner: *to be assigned*

The materials in the accompanying envelope are considered proprietary, and are being submitted for consideration under MPEP § 724.

It is respectfully requested that the above-listed Applications be maintained confidential pursuant to 37 U.S.C. §122. No waiver of the statutory right of secrecy is granted or implied by the disclosures of the above-listed Applications in the accompanying Information Disclosure Statement.

Respectfully submitted,



Robert E. Bushnell

Reg. No.: 27,774

1522 "K" Street, N.W., Suite 300
Washington, D.C. 20005
Area Code: 202-408-9040

Folio: P57051
Date: 19 April 2004
I.D.: REB/kf